

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
4 August 2005 (04.08.2005)

PCT

(10) International Publication Number  
**WO 2005/071617 A1**

(51) International Patent Classification<sup>7</sup>: **G06T 15/00,**  
5/00, G06F 19/00

(21) International Application Number:  
PCT/NZ2005/000005

(22) International Filing Date: 21 January 2005 (21.01.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
530738 21 January 2004 (21.01.2004) NZ

(71) Applicant (for all designated States except US): **STELLURE LIMITED** [NZ/NZ]; Level 4, ASB Bank Building, 143 Armagh Street, P O Box 13945, Christchurch, 8015 (NZ).

(72) Inventors; and

(75) Inventors/Applicants (for US only): **LIND, Daniel, Richard James** [NZ/NZ]; 219 Knowles Street, Mairehau, Christchurch, 8005 (NZ). **MCGREGOR, Janet, Gail** [NZ/NZ]; 192a Clifton Terrace, Sumner, Christchurch, 8008 (NZ). **LOW, Nicolas, Alan** [NZ/AU]; Factory Seven,

215 Nicholson Street, East Brunswick, Victoria, Victoria 3056 (AU). **NESBITT, Roger, Stephen** [NZ/NZ]; Room 20202, Education House, 235 Willis Street, Wellington, 6001 (NZ). **YOUNG, Simon, Alexander Russell** [NZ/NZ]; 11b Rastrick Street, Merivale, Christchurch, 8001 (NZ).

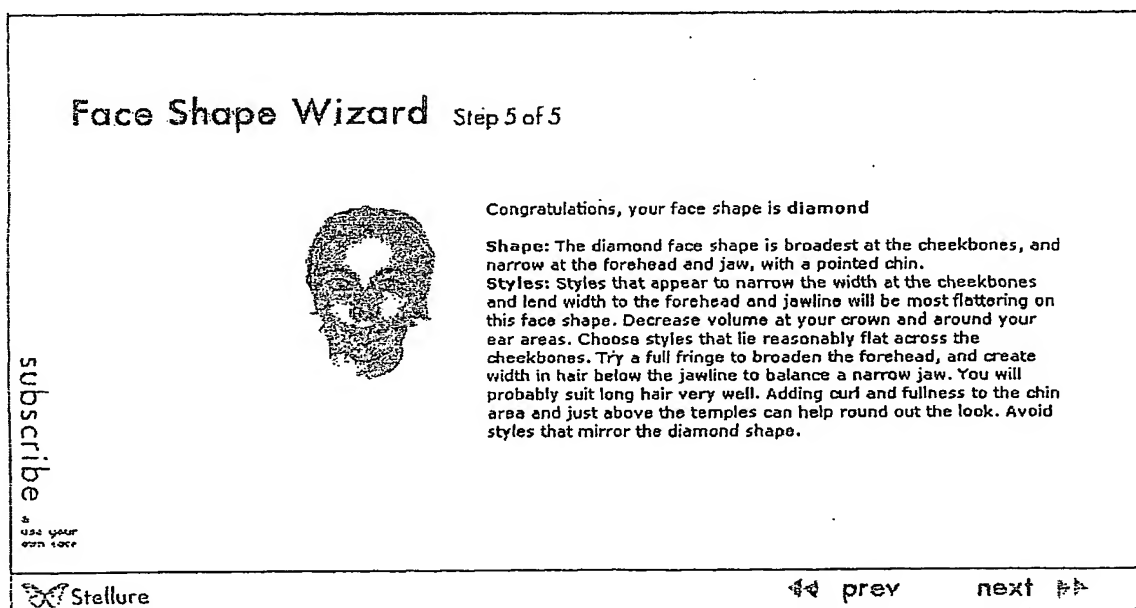
(74) Agents: **WILSON, Kathryn, S et al.**; Private Bag 3140, Level 12, KPMG Centre, 85 Alexandra Street, Hamilton, 2001 (NZ).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH,

[Continued on next page]

(54) Title: METHODS AND SYSTEMS FOR COMPOSITING IMAGES



(57) Abstract: The present invention relates to a method of compositing multiple images together preferably to display a composite 3-dimensional image of a user's face combined with a new hair style for the user. The method executed by the present invention includes the steps of initially receiving a 3-dimensional image of a hair style and a 3-dimensional image of the user's face. An initial pixel from a foreground hair layer image is combined with an initial corresponding pixel of a face image and an initial corresponding pixel from a background hair layer image. This process continues to generate a composite 3-dimensional image illustrating the user's face with the hair style pictured.

WO 2005/071617 A1



GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

**Published:**

— with international search report

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*